ELSEVIER

Journal of Organometallic Chemistry 569 (1998) 235

Journal of Organometallic Chemistry

Author index of Volume 569

Adachi, Y., 147
Akita, M., 71
Aoshima, T., 15
Author, A., 1

Baba, A., 3
Bouachir, F., 203
Brady, J.T., 55
Broomhall-Dillard, R.N.R., 89

Cariño, R.S., 55
Casey, C.P., 55
Chen, A.-J., 39
Chen, J.-T., 39
Chien, J.C.W., 121

Davis, W.M., 125

Erker, G., 217
Evans, W.J., 89

Foster, P., 121
Fujiwara, Y., 139
Fukuoka, A., 3

Galindo, A., 21
Grenouillet, P., 203

Hashimoto, H., 147
Hayashi, R.K., 55
Hayashi, Y., 169
Heinemann, J., 159
Hidai, M., 99
Hirai, M., 3
Hirano, M., 3
Huang, T.-M., 39
Hua, R., 71

Ihara, E., 147
Ishii, Y., 99
Ito, T., 139
Ito, Y., 3
Iyoda, M., 225

Kai, Y., 147
Kanehisa, N., 147
Katada, M., 225
Kawaguchi, H., 109
Knox, S.A.R., 71
Kobayashi, K., 169
Koga, M., 139
Komiya, S., 3
Kurishima, S., 139
Kuwatani, Y., 225

Lang, J.-P., 109
Laubender, M., 189
Lee, G.-H., 39
Lee, J.-J., 39

Maitlis, P.M., 85
Manger, M., 189
Mashima, K., 15
Masi, D., 21
Matsumoto, N., 139
Mealli, C., 21
Minato, M., 139
Moro-oka, Y., 71
Mülhaupt, R., 159

Nakajima, H., 61
Nakamura, A., 177
Nakanishi, S., 71
Natori, M., 139
Neibecker, D., 203
Nishio, M., 99

Ohshiro, N., 195
Okabe, T., 225
Okamura, T.-a., 177
Okuda, J., 159
Onitsuka, K., 195
Osawa, M., 169
Oshiki, T., 15

Pastor, A., 21
Poirier, J., 203

Rausch, M.D., 121
Sato, M., 169
Sato, T., 99, 169
Schleis, T., 159
Schottek, J., 217
Schrock, R.R., 125
Sekizuka, N., 139
Spaniol, T.P., 159
Stalke, D., 189
Su, C.-C., 39
Sudoh, C., 29

Takahashi, S., 195
Takano, Y., 177
Takei, F., 195
Tanaka, K., 61
Tanase, T., 29
Tani, K., 15
Tatsumi, K., 109
Teichert, M., 189
Tkatchenko, I., 203
Toyohara, K., 61
Tsai, F.-Y., 39
Tsuge, K., 61
Tsurumaki, T., 3
Turuta, T., 29

Ueyama, N., 177
Urata, H., 15

Wakatsuki, Y., 169
Wang, Y., 39
Wang, Z.-Q., 85
Warren, T.H., 125
Werner, H., 189

Yamaguchi, K., 177
Yamamoto, Y., 29
Yamazaki, H., 99
Yang, C.-S., 39
Yasuda, H., 147
Yates, M.I., 71
Yoshioka, K.-i., 139
Yoshioka, Y., 177

Ziller, J.W., 89

PII S0022-328X(98)00903-6

ELSEVIER

Journal of Organometallic Chemistry 569 (1998) 237–240

Journal of Organometallic Chemistry

Subject index of Volume 569

A-frame complexes
Two dinuclear rhodium complexes with a non-A-frame and a distorted A-frame skeleton and two $^{t}Pr_2PCH_2P^{t}Pr_2$ molecules as bridging ligands, 189
Aliphatic imines
Reductions of C=O and C=N groups with the systems composed of $(\eta^5\text{-}C_5H_5)_2MoH_2$ and acids, 139
Alkenyl complexes
Specific C–C coupling of the labile diruthenium bridging methylene complex, $Cp_2Ru_2(\mu\text{-}CH_2)(CO)_2(MeCN)$, with diazoalkanes ($R_2C{=}N_2$) leading to alkenyl complexes, $Cp_2Ru_2(\mu\text{-}CH{=}CR_2)(\mu\text{-}H)(CO)_2$, and alkenes, $CH_2{=}CR_2$, 71
Alkyne complex
Synthesis, molecular structure and theoretical considerations on $Mo(PhC{\equiv}CCOOEt)_3(PMe_3)$, 21
Allyl complexes
Cationic η^3-allyl complexes. 21. Telomerization of buta-1,3-diene with Z–H compounds mediated by group 10 complexes, 203
Aromatic imines
Reductions of C=O and C=N groups with the systems composed of $(\eta^5\text{-}C_5H_5)_2MoH_2$ and acids, 139
η^3-Azatrimethylenemethane complexes
A new stable intermediary mode between η^3-2-aminoallyl complexes and metallacyclobutanimines. Synthesis and structural characteristic of η^3-azatrimethylenemethane and *N*-protonated, *N*-alkylated, *N*-arylated η^3-azatrimethylenemethane complexes of Pt and Pd, 39

Benz[*f*]indene
Synthesis of 2-methylbenz[*f*]indene and $(\eta^5$-2-methylbenz[*f*]indenyl)rhodium dicarbonyl, 121
Benzyl complex
Dialkylchromium complexes bearing a hydrotris(3,5-dimethylpyrazolyl)borate ligand: synthesis and crystal structures of Tp^*CrMe_2(DMAP) and $Tp^*Cr(Cr(CH_2Ph)_2$-(DMAP) (DMAP = 4-dimethylaminopyridine), 15
Bis[dichloro(η^6-arene)ruthenium(II)]
Reactions of $(\eta^6\text{-}C_6Me_6)RuCl$(MDMPP-*P,O*) and $(\eta^6$-$C_6Me_6)RuCl$(BDMPP-*P,O,O*) complexes with Lewis bases or alkynes, where MDMPP-*P,O*=P(2-O-6-$MeOC_6H_3)Ph_2$ and BDMPP-*P,O,O*=$P(2\text{-}O\text{-}6\text{-}MeOC_6H_3)_2\{2,6\text{-}(MeO)_2$-$C_6H_3\}$, 29
Bis(diisopropylphosphino)methane
Two dinuclear rhodium complexes with a non-A-frame and a distorted A-frame skeleton and two $^{t}Pr_2PCH_2P^{t}Pr_2$ molecules as bridging ligands, 189
Bridging carbonato ligands
Two dinuclear rhodium complexes with a non-A-frame and a distorted A-frame skeleton and two $^{t}Pr_2PCH_2P^{t}Pr_2$ molecules as bridging ligands, 189
Bridging hydrido ligands
Two dinuclear rhodium complexes with a non-A-frame and a distorted A-frame skeleton and two $^{t}Pr_2PCH_2P^{t}Pr_2$ molecules as bridging ligands, 189

Butadiene metal complex
Addition of Group 4 bent metallocene cation complexes to (butadiene)zirconocene: the formation of dinuclear (μ-butadiene)bis(metallocene) cations, 217
Buta-1,3-diene telomerization
Cationic η^3-allyl complexes. 21. Telomerization of buta-1,3-diene with Z–H compounds mediated by group 10 complexes, 203
Butyl isocyanate
Synthesis of 2,6-dialkoxylphenyllanthanoid complexes and their polymerization catalysis, 147
Butyllithium
Synthesis of 2-methylbenz[*f*]indene and $(\eta^5$-2-methylbenz[*f*]indenyl)rhodium dicarbonyl, 121

ϵ-Caprolactone
Synthesis of 2,6-dialkoxylphenyllanthanoid complexes and their polymerization catalysis, 147
Cation
Addition of Group 4 bent metallocene cation complexes to (butadiene)zirconocene: the formation of dinuclear (μ-butadiene)bis(metallocene) cations, 217
C–C coupling
C–H activation by Grignard reagents: vinyl plus methylene coupling on iridium, 85
Specific C–C coupling of the labile diruthenium bridging methylene complex, $Cp_2Ru_2(\mu\text{-}CH_2)(CO)_2(MeCN)$, with diazoalkanes ($R_2C{=}N_2$) leading to alkenyl complexes, $Cp_2Ru_2(\mu\text{-}CH{=}CR_2)(\mu\text{-}H)(CO)_2$, and alkenes, $CH_2{=}CR_2$, 71
C–H activation
C–H activation by Grignard reagents: vinyl plus methylene coupling on iridium, 85
Chromium
Dialkylchromium complexes bearing a hydrotris(3,5-dimethylpyrazolyl)borate ligand: synthesis and crystal structures of Tp^*CrMe_2(DMAP) and $Tp^*Cr(Cr(CH_2Ph)_2$-(DMAP) (DMAP = 4-dimethylaminopyridine), 15
Cluster
Reactions of the tungsten tris-sulfido complex $[PPh_4][(\eta^5$-$C_5Me_5)WS_3]$ with $[M'(PPh_3)_2(NO_3)]$ (M' = Cu(I), Ag(I)), $[Au(PPh_3)Cl]$, and $[Pd(dppe)Cl_2]$: Isolation and structures of $[(\eta^5\text{-}C_5Me_5)WS_3Cu_3(PPh_3)_3(NO_3)][NO_3]$, $[\{(\eta^5\text{-}C_5Me_5)$-$WS_3\}_2Ag_3(PPh_3)_3][NO_3]$, $[(\eta^5\text{-}C_5Me_5)WS_3Au\text{-}(PPh_3)]$ and $[(\eta^5\text{-}C_5Me_5)WS_3Pd(dppe)]Cl$ (dppe = 1, 2-bis(diphenylphosphino)ethane), 109
Synthesis and reactivities of the indenyl-ruthenium cluster $[(\eta^5$-$C_9H_7)Ru(\mu\text{-}SEt)]_3$: indenyl effect in the trinuclear ruthenium cluster, 99
Copper
Reactions of the tungsten tris-sulfido complex $[PPh_4][(\eta^5$-$C_5Me_5)WS_3]$ with $[M'(PPh_3)_2(NO_3)]$ (M' = Cu(I), Ag(I)), $[Au(PPh_3)Cl]$, and $[Pd(dppe)Cl_2]$: Isolation and structures of $[(\eta^5\text{-}C_5Me_5)WS_3Cu_3(PPh_3)_3(NO_3)][NO_3]$, $[\{(\eta^5\text{-}C_5Me_5)$-$WS_3\}_2Ag_3(PPh_3)_3][NO_3]$, $[(\eta^5\text{-}C_5Me_5)WS_3Au\text{-}(PPh_3)]$ and $[(\eta^5\text{-}C_5Me_5)WS_3Pd(dppe)]Cl$ (dppe = 1, 2-bis(diphenylphosphino)ethane), 109

PII S0022-328X(98)00904-8

Crystal structure
Dialkylchromium complexes bearing a hydrotris(3,5-dimethylpyrazolyl)borate ligand: synthesis and crystal structures of $Tp^*CrMe_2(DMAP)$ and $Tp^*Cr(Cr(CH_2Ph)_2$-(DMAP) (DMAP = 4-dimethylaminopyridine), 15
N-bonded enolatorhenium(I) complexes having dimethylphenylphosphine ligands as active key intermediates in catalytic Knoevenagel and Michael reactions, 3
Crystal structures
Reactions of the tungsten tris-sulfido complex $[PPh_4][(\eta^5$-$C_5Me_5)WS_3]$ with $[M'(PPh_3)_2(NO_3)]$ (M′ = Cu(I), Ag(I)), $[Au(PPh_3)Cl]$, and $[Pd(dppe)Cl_2]$: Isolation and structures of $[(\eta^5$-$C_5Me_5)WS_3Cu_3(PPh_3)_3(NO_3)][NO_3]$, $[\{(\eta^5$-$C_5Me_5)$-$WS_3\}_2Ag_3(PPh_3)_3][NO_3]$, $[(\eta^5$-$C_5Me_5)WS_3Au$-$(PPh_3)]$ and $[(\eta^5$-$C_5Me_5)WS_3Pd(dppe)]Cl$ (dppe = 1, 2-bis(diphenylphosphino)ethane), 109
Cyclopentadienyl-free
Synthesis, structure, and reactivity of cyclopentadienyl-free trimethylsilylmethyl yttrium di-tert-butylphenoxide complexes, 89

Dendrimer
Synthesis of organometallic dendrimers with a backbone composed of platinum-acetylide units, 195
Diastereoselectivity
Reductions of C=O and C=N groups with the systems composed of $(\eta^5$-$C_5H_5)_2MoH_2$ and acids, 139
1,4-Diazadiene ligand
Ethylene polymerization catalysts based on nickel(II) 1,4-diazadiene complexes: the influence of the 1,4-diazadiene backbone substituents on structure and reactivity, 159
Dicarbonyl
Synthesis of 2-methylbenz[*f*]indene and $(\eta^5$-2-methylbenz[*f*]indenyl)rhodium dicarbonyl, 121
(2,6-Dimethoxyphenyl)diphenylphosphine
Reactions of $(\eta^6$-$C_6Me_6)RuCl(MDMPP$-$P,O)$ and $(\eta^6$-$C_6Me_6)RuCl(BDMPP$-$P,O,O)$ complexes with Lewis bases or alkynes, where MDMPP-*P*,*O*=$P(2$-O-6-$MeOC_6H_3)Ph_2$ and BDMPP-*P*,*O*,*O*=$P(2$-O-6-$MeOC_6H_3)_2\{2,6$-$(MeO)_2C_6$-$H_3\}$, 29
Diruthenium
Specific C–C coupling of the labile diruthenium bridging methylene complex, $Cp_2Ru_2(\mu$-$CH_2)(CO)_2(MeCN)$, with diazoalkanes ($R_2C=N_2$) leading to alkenyl complexes, $Cp_2Ru_2(\mu$-CH=$CR_2)(\mu$-$H)(CO)_2$, and alkenes, CH_2=CR_2, 71
Di-tert-butylphenoxide
Synthesis, structure, and reactivity of cyclopentadienyl-free trimethylsilylmethyl yttrium di-tert-butylphenoxide complexes, 89

EHMO calculations
Synthesis, molecular structure and theoretical considerations on $Mo(PhC{\equiv}CCOOEt)_3(PMe_3)$, 21
Electron donors
Face-to-face fixed ferrocenes. Synthesis and properties of 2,10-diferrocenyl- and 2,5,7,10-tetraferrocenyl-1,6-methano[10]-annulenes, 225

Ferrocenes
Face-to-face fixed ferrocenes. Synthesis and properties of 2,10-diferrocenyl- and 2,5,7,10-tetraferrocenyl-1,6-methano[10]-annulenes, 225
Ferrocenyl
The reaction of titanocene bis(ferrocenylacetylide) and bis(-ruthenocenylacetylide) with silver cation: formation of bis(Ti-tweezers) silver complexes, 169
Functionalized hexadecatetraenes
Cationic η^3-allyl complexes. 21. Telomerization of buta-1,3-diene with Z–H compounds mediated by group 10 complexes, 203

Gold
Reactions of the tungsten tris-sulfido complex $[PPh_4][(\eta^5$-$C_5Me_5)WS_3]$ with $[M'(PPh_3)_2(NO_3)]$ (M′ = Cu(I), Ag(I)), $[Au(PPh_3)Cl]$, and $[Pd(dppe)Cl_2]$: Isolation and structures of $[(\eta^5$-$C_5Me_5)WS_3Cu_3(PPh_3)_3(NO_3)][NO_3]$, $[\{(\eta^5$-$C_5Me_5)$-$WS_3\}_2Ag_3(PPh_3)_3][NO_3]$, $[(\eta^5$-$C_5Me_5)WS_3Au$-$(PPh_3)]$ and $[(\eta^5$-$C_5Me_5)WS_3Pd(dppe)]Cl$ (dppe = 1, 2-bis(diphenylphosphino)ethane), 109
Group 4
Addition of Group 4 bent metallocene cation complexes to (butadiene)zirconocene: the formation of dinuclear (μ-butadiene)bis(metallocene) cations, 217
Group 4 metallocene
Addition of Group 4 bent metallocene cation complexes to (butadiene)zirconocene: the formation of dinuclear (μ-butadiene)bis(metallocene) cations, 217

Hexyl isocyanate
Synthesis of 2,6-dialkoxylphenyllanthanoid complexes and their polymerization catalysis, 147
α-Hydrogen
α-Hydrogen migration reactions in tungsten(VI) cyclopentadienyl alkylidyne complexes, 125
Hydrotris(3,5-dimethylpyrazolyl)borate
Dialkylchromium complexes bearing a hydrotris(3,5-dimethylpyrazolyl)borate ligand: synthesis and crystal structures of $Tp^*CrMe_2(DMAP)$ and $Tp^*Cr(Cr(CH_2$-$Ph)_2(DMAP)$ (DMAP = 4-dimethylaminopyridine), 15

Indenyl ligand
Synthesis and reactivities of the indenyl-ruthenium cluster $[(\eta^5$-$C_9H_7)Ru(\mu$-$SEt)]_3$: indenyl effect in the trinuclear ruthenium cluster, 99
Iridium
C–H activation by Grignard reagents: vinyl plus methylene coupling on iridium, 85

Knoevenagel reaction
N-bonded enolatorhenium(I) complexes having dimethylphenylphosphine ligands as active key intermediates in catalytic Knoevenagel and Michael reactions, 3

Metal alkene complex
Reaction of $Cp^*(CO)_2Re{=}Re(CO)_2Cp^*$ in THF with diethyl fumarate produces $Cp^*Re(CO)_3$ and $Cp^*Re(CO)(\eta^2$-(*E*)-$EtO_2CCH{=}CHCO_2Et)(THF)$, 55
Metallation
Synthesis, structure, and reactivity of cyclopentadienyl-free trimethylsilylmethyl yttrium di-tert-butylphenoxide complexes, 89
Metal–metal bond scission
Reaction of $Cp^*(CO)_2Re{=}Re(CO)_2Cp^*$ in THF with diethyl fumarate produces $Cp^*Re(CO)_3$ and $Cp^*Re(CO)(\eta^2$-(*E*)-$EtO_2CCH{=}CHCO_2Et)(THF)$, 55
1,6-Methano[10]annulenes
Face-to-face fixed ferrocenes. Synthesis and properties of 2,10-diferrocenyl- and 2,5,7,10-tetraferrocenyl-1,6-methano[10]-annulenes, 225
Methyl complex
Dialkylchromium complexes bearing a hydrotris(3,5-dimethylpyrazolyl)borate ligand: synthesis and crystal structures of $Tp^*CrMe_2(DMAP)$ and $Tp^*Cr(Cr(CH_2$-$Ph)_2(DMAP)$ (DMAP = 4-dimethylaminopyridine), 15

Methylene
C–H activation by Grignard reagents: vinyl plus methylene coupling on iridium, 85
Methyl methacrylate
Synthesis of 2,6-dialkoxylphenyllanthanoid complexes and their polymerization catalysis, 147
Michael reaction
N-bonded enolatorhenium(I) complexes having dimethylphenylphosphine ligands as active key intermediates in catalytic Knoevenagel and Michael reactions, 3
Migration reactions
α-Hydrogen migration reactions in tungsten(VI) cyclopentadienyl alkylidyne complexes, 125
Molybdenum complex
Synthesis, molecular structure and theoretical considerations on $Mo(PhC{\equiv}CCOOEt)_3(PMe_3)_3$, 21

Nickel alkyl complexes
Ethylene polymerization catalysts based on nickel(II) 1,4-diazadiene complexes: the influence of the 1,4-diazadiene backbone substituents on structure and reactivity, 159

Palladium
Cationic η^3-allyl complexes. 21. Telomerization of buta-1,3-diene with Z–H compounds mediated by group 10 complexes, 203
Reactions of the tungsten tris-sulfido complex $[PPh_4][(\eta^5\text{-}C_5Me_5)WS_3]$ with $[M'(PPh_3)_2(NO_3)]$ ($M' = Cu(I)$, $Ag(I)$), $[Au(PPh_3)Cl]$, and $[Pd(dppe)Cl_2]$: Isolation and structures of $[(\eta^5\text{-}C_5Me_5)WS_3Cu_3(PPh_3)_3(NO_3)][NO_3]$, $[\{(\eta^5C_5Me_5)\text{-}WS_3\}_2Ag_3(PPh_3)_3][NO_3]$, $[(\eta^5\text{-}C_5Me_5)WS_3Au\text{-}(PPh_3)]$ and $[(\eta^5\text{-}C_5Me_5)WS_3Pd(dppe)]Cl$ (dppe = 1, 2-bis(diphenylphosphino)ethane), 109
Palladium-catalyzed cross-coupling
Face-to-face fixed ferrocenes. Synthesis and properties of 2,10-diferrocenyl- and 2,5,7,10-tetraferrocenyl-1,6-methano[10]-annulenes, 225
Pd
A new stable intermediary mode between η^3-2-aminoallyl complexes and metallacyclobutanimines. Synthesis and structural characteristic of η^3-azatrimethylenemethane and *N*-protonated, *N*-alkylated, *N*-arylated η^3-azatrimethylenemethane complexes of Pt and Pd, 39
Pentamethylcyclopentadienyl
C–H activation by Grignard reagents: vinyl plus methylene coupling on iridium, 85
Platinum
Cationic η^3-allyl complexes. 21. Telomerization of buta-1,3-diene with Z–H compounds mediated by group 10 complexes, 203
Platinum acetylides
Synthesis of organometallic dendrimers with a backbone composed of platinum-acetylide units, 195
Polymerization
Synthesis, structure, and reactivity of cyclopentadienyl-free trimethylsilylmethyl yttrium di-tert-butylphenoxide complexes, 89
Polymerization catalyst
Ethylene polymerization catalysts based on nickel(II) 1,4-diazadiene complexes: the influence of the 1,4-diazadiene backbone substituents on structure and reactivity, 159
Synthesis of 2,6-dialkoxylphenyllanthanoid complexes and their polymerization catalysis, 147
Polynuclear metal complex
Synthesis of organometallic dendrimers with a backbone composed of platinum-acetylide units, 195
Pt
A new stable intermediary mode between η^3-2-aminoallyl complexes and metallacyclobutanimines. Synthesis and structural characteristic of η^3-azatrimethylenemethane and *N*-protonated, *N*-alkylated, *N*-arylated η^3-azatrimethylenemethane complexes of Pt and Pd, 39

Rare earth metal compound
Synthesis of 2,6-dialkoxylphenyllanthanoid complexes and their polymerization catalysis, 147
Redox properties
Face-to-face fixed ferrocenes. Synthesis and properties of 2,10-diferrocenyl- and 2,5,7,10-tetraferrocenyl-1,6-methano[10]-annulenes, 225
Reductive carbonylation
Ethylene polymerization catalysts based on nickel(II) 1,4-diazadiene complexes: the influence of the 1,4-diazadiene backbone substituents on structure and reactivity, 159
Rhenium
Reaction of $Cp^*(CO)_2Re{=}Re(CO)_2Cp^*$ in THF with diethyl fumarate produces $Cp^*Re(CO)_3$ and $Cp^*Re(CO)(\eta^2\text{-}(E)\text{-}EtO_2CCH{=}CHCO_2Et)(THF)$, 55
Rhenium dinitrogen complex
N-bonded enolatorhenium(I) complexes having dimethylphenylphosphine ligands as active key intermediates in catalytic Knoevenagel and Michael reactions, 3
Rhenium enolate complex
N-bonded enolatorhenium(I) complexes having dimethylphenylphosphine ligands as active key intermediates in catalytic Knoevenagel and Michael reactions, 3
Rhodium
Synthesis of 2-methylbenz[*f*]indene and (η^5-2-methylbenz[*f*]indenyl)rhodium dicarbonyl, 121
Two dinuclear rhodium complexes with a non-A-frame and a distorted A-frame skeleton and two $^tPr_2PCH_2P^tPr_2$ molecules as bridging ligands, 189
Ruthenium
Synthesis and reactivities of the indenyl-ruthenium cluster $[(\eta^5\text{-}C_9H_7)Ru(\mu\text{-}SEt)]_3$: indenyl effect in the trinuclear ruthenium cluster, 99
Ruthenium alkyne complexes
Reactions of $(\eta^6\text{-}C_6Me_6)RuCl(MDMPP\text{-}P,O)$ and $(\eta^6\text{-}C_6Me_6)RuCl(BDMPP\text{-}P,O,O)$ complexes with Lewis bases or alkynes, where $MDMPP\text{-}P,O{=}P(2\text{-}O\text{-}6\text{-}MeOC_6H_3)Ph_2$ and $BDMPP\text{-}P,O,O{=}P(2\text{-}O\text{-}6\text{-}MeOC_6H_3)_2\{2,6\text{-}(MeO)_2C_6H_3\}$, 29
Silver
Reactions of the tungsten tris-sulfido complex $[PPh_4][(\eta^5\text{-}C_5Me_5)WS_3]$ with $[M'(PPh_3)_2(NO_3)]$ ($M' = Cu(I)$, $Ag(I)$), $[Au(PPh_3)Cl]$, and $[Pd(dppe)Cl_2]$: Isolation and structures of $[(\eta^5\text{-}C_5Me_5)WS_3Cu_3(PPh_3)_3(NO_3)][NO_3]$, $[\{(\eta^5\text{-}C_5Me_5)\text{-}WS_3\}_2Ag_3(PPh_3)_3][NO_3]$, $[(\eta^5\text{-}C_5Me_5)WS_3Au(PPh_3)]$ and $[(\eta^5\text{-}C_5Me_5)WS_3Pd(dppe)]Cl$ (dppe = 1, 2-bis(diphenylphosphino)ethane), 109
Spectroscopic analysis
Addition of Group 4 bent metallocene cation complexes to (butadiene)zirconocene: the formation of dinuclear (μ-butadiene)bis(metallocene) cations, 217
Structural characteristic
A new stable intermediary mode between η^3-2-aminoallyl complexes and metallacyclobutanimines. Synthesis and structural characteristic of η^3-azatrimethylenemethane and *N*-protonated, *N*-alkylated, *N*-arylated η^3-azatrimethylenemethane complexes of Pt and Pd, 39

Sulfido complex
Reactions of the tungsten tris-sulfido complex $[PPh_4][(\eta^5\text{-}C_5Me_5)WS_3]$ with $[M'(PPh_3)_2(NO_3)]$ ($M' = Cu(I)$, $Ag(I)$), $[Au(PPh_3)Cl]$, and $[Pd(dppe)Cl_2]$: Isolation and structures of $[(\eta^5\text{-}C_5Me_5)WS_3Cu_3(PPh_3)_3(NO_3)][NO_3]$, $[\{(\eta^5\text{-}C_5Me_5)WS_3\}_2Ag_3(PPh_3)_3][NO_3]$, $[(\eta^5\text{-}C_5Me_5)WS_3Au(PPh_3)]$ and $[(\eta^5\text{-}C_5Me_5)WS_3Pd(dppe)]Cl$ (dppe = 1, 2-bis(diphenylphosphino)ethane), 109

Thiolato ligand
Synthesis and reactivities of the indenyl-ruthenium cluster $[(\eta^5\text{-}C_9H_7)Ru(\mu\text{-}SEt)]_3$: indenyl effect in the trinuclear ruthenium cluster, 99

Titanocene bis(acetylide)
The reaction of titanocene bis(ferrocenylacetylide) and bis(ruthenocenylacetylide) with silver cation: formation of bis(Ti-tweezers) silver complexes, 169

Ti-tweezers
The reaction of titanocene bis(ferrocenylacetylide) and bis(ruthenocenylacetylide) with silver cation: formation of bis(Ti-tweezers) silver complexes, 169

Trimethylsilylmethyl
Synthesis, structure, and reactivity of cyclopentadienyl-free trimethylsilylmethyl yttrium di-tert-butylphenoxide complexes, 89

Tri(phenyl)samarium
Synthesis of 2,6-dialkoxylphenyllanthanoid complexes and their polymerization catalysis, 147

Tungsten
α-Hydrogen migration reactions in tungsten(VI) cyclopentadienyl alkylidyne complexes, 125
Reactions of the tungsten tris-sulfido complex $[PPh_4][(\eta^5\text{-}C_5Me_5)WS_3]$ with $[M'(PPh_3)_2(NO_3)]$ ($M' = Cu(I)$, $Ag(I)$), $[Au(PPh_3)Cl]$, and $[Pd(dppe)Cl_2]$: Isolation and structures of $[(\eta^5\text{-}C_5Me_5)WS_3Cu_3(PPh_3)_3(NO_3)][NO_3]$, $[\{(\eta^5\text{-}C_5Me_5)WS_3\}_2Ag_3(PPh_3)_3][NO_3]$, $[(\eta^5\text{-}C_5Me_5)WS_3Au(PPh_3)]$ and $[(\eta^5\text{-}C_5Me_5)WS_3Pd(dppe)]Cl$ (dppe = 1, 2-bis(diphenylphosphino)ethane), 109

Vinyl
C–H activation by Grignard reagents: vinyl plus methylene coupling on iridium, 85

X-ray crystallography
Ethylene polymerization catalysts based on nickel(II) 1,4-diazadiene complexes: the influence of the 1,4-diazadiene backbone substituents on structure and reactivity, 159

X-ray crystal structure
Synthesis and reactivities of the indenyl-ruthenium cluster $[(\eta^5\text{-}C_9H_7)Ru(\mu\text{-}SEt)]_3$: indenyl effect in the trinuclear ruthenium cluster, 99

Yttrium
Synthesis, structure, and reactivity of cyclopentadienyl-free trimethylsilylmethyl yttrium di-tert-butylphenoxide complexes, 89

Zirconocene cation comnplex
Addition of Group 4 bent metallocene cation complexes to (butadiene)zirconocene: the formation of dinuclear (μ-butadiene)bis(metallocene) cations, 217